

=> d his ful

(FILE 'HOME' ENTERED AT 15:26:36 ON 19 JAN 2007)

FILE 'REGISTRY' ENTERED AT 15:26:44 ON 19 JAN 2007

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 STRUCTURE UPLOADED
L4 88 SEA SSS FUL L2
L5 101 SEA SSS FUL L3
L6 244 SEA SSS FUL L1

FILE 'HCAPLUS, USPATFULL, USPAT2' ENTERED AT 15:29:32 ON 19 JAN 2007

L7 43 SEA ABB=ON PLU=ON L4
L8 33 SEA ABB=ON PLU=ON L5
L9 63 SEA ABB=ON PLU=ON L6
L10 132 SEA ABB=ON PLU=ON L7 OR L8 OR L9
L11 117 DUP REM L10 (15 DUPLICATES REMOVED)
ANSWERS '1-92' FROM FILE HCAPLUS
ANSWERS '93-117' FROM FILE USPATFULL
L12 93 SEA ABB=ON PLU=ON L11 AND (PD=<20030826 OR PRD=<20030826)
L13 88 SEA ABB=ON PLU=ON L12 AND (PD=<20020826 OR PRD=<20020826)
L14 2 SEA ABB=ON PLU=ON L12 AND (PD=20020826 OR PRD=20020826)
L15 86 SEA ABB=ON PLU=ON L13 NOT L14
D L15 1-2 IBIB HITSTR
L16 86 DUP REM L15 (0 DUPLICATES REMOVED)
ANSWERS '1-64' FROM FILE HCAPLUS
ANSWERS '65-86' FROM FILE USPATFULL
D L16 65-86 IBIB HITSTR

FILE 'REGISTRY' ENTERED AT 15:35:19 ON 19 JAN 2007

L17 STRUCTURE UPLOADED
L18 35 SEA SUB=L4 SSS FUL L17
L19 92 SEA SUB=L5 SSS FUL L17
L20 167 SEA SUB=L6 SSS FUL L17
L21 278 SEA ABB=ON PLU=ON L18 OR L19 OR L20

FILE 'HCAPLUS, USPATFULL, USPAT2' ENTERED AT 15:37:29 ON 19 JAN 2007

L22 28 SEA ABB=ON PLU=ON L21 AND 15
D L22 1-28 IBIB HITSTR

FILE 'REGISTRY' ENTERED AT 15:51:06 ON 19 JAN 2007

L23 STRUCTURE UPLOADED
D
L24 0 SEA SSS SAM L23
L25 24 SEA SSS FUL L23

FILE 'HCAPLUS, USPATFULL, USPAT2' ENTERED AT 15:52:08 ON 19 JAN 2007

L26 19 SEA ABB=ON PLU=ON L25
L27 16 SEA ABB=ON PLU=ON L26 AND (PD=<20030826 OR PRD=<20030826)
L28 15 SEA ABB=ON PLU=ON L27 AND (PD=<20020826 OR PRD=<20020826)
L29 15 SEA ABB=ON PLU=ON L28 AND (PD=<20020826 OR PRD=<20020826)
L30 12 DUP REM L29 (3 DUPLICATES REMOVED)
ANSWERS '1-6' FROM FILE HCAPLUS
ANSWERS '7-12' FROM FILE USPATFULL
D L30 1-12 IBIB HITSTR

FILE 'REGISTRY' ENTERED AT 15:56:55 ON 19 JAN 2007

L31 STRUCTURE UPLOADED

D
L32 71 SEA SSS FUL L31
FILE 'HCAPLUS, USPATFULL, USPAT2' ENTERED AT 15:57:30 ON 19 JAN 2007
L33 27 SEA ABB=ON PLU=ON L32 AND (PD=<20030826 OR PRD=<20030826)
L34 25 SEA ABB=ON PLU=ON L33 AND (PD=<20020826 OR PRD=<20020826)
L35 25 SEA ABB=ON PLU=ON L34 AND (PD<20020826 OR PRD<20020826)
L36 25 SEA ABB=ON PLU=ON L35 NOT L27
L37 23 DUP REM L36 (2 DUPLICATES REMOVED)
ANSWERS '1-15' FROM FILE HCAPLUS
ANSWERS '16-23' FROM FILE USPATFULL
D L37 1-23 IBIB HITSTR

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 18 JAN 2007 HIGHEST RN 917867-30-2

DICTIONARY FILE UPDATES: 18 JAN 2007 HIGHEST RN 917867-30-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE HCAPLUS

FILE COVERS 1907 - 19 Jan 2007 VOL 146 ISS 5

FILE LAST UPDATED: 18 Jan 2007 (20070118/ED)

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 18 Jan 2007 (20070118/PD)

FILE LAST UPDATED: 18 Jan 2007 (20070118/ED)

CA INDEXING IS CURRENT THROUGH 18 Jan 2007 (20070118/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 18 Jan 2007 (20070118/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006

FILE USPAT2

FILE COVERS 2001 TO PUBLICATION DATE: 18 Jan 2007 (20070118/PD)

FILE LAST UPDATED: 18 Jan 2007 (20070118/ED)

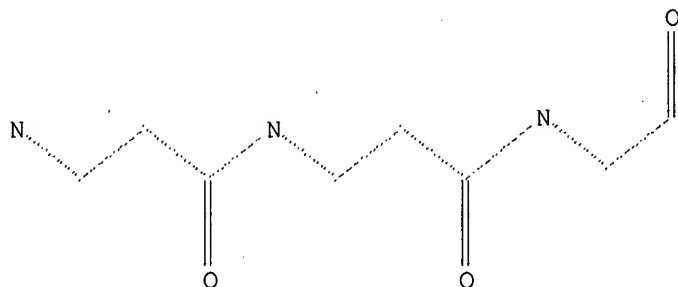
CA INDEXING IS CURRENT THROUGH 18 Jan 2007 (20070118/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 18 Jan 2007 (20070118/PD)

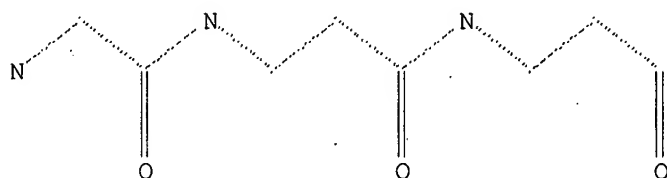
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2006

=> d que sta 122; d que sta 130; d que sta 137

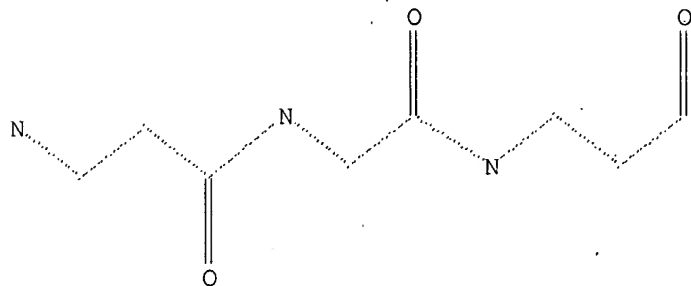
L1 STR



Structure attributes must be viewed using STN Express query preparation.
L2 STR

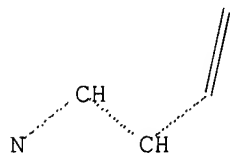


Structure attributes must be viewed using STN Express query preparation.
L3 STR



Structure attributes must be viewed using STN Express query preparation.

L4 88 SEA FILE=REGISTRY SSS FUL L2
L5 101 SEA FILE=REGISTRY SSS FUL L3
L6 244 SEA FILE=REGISTRY SSS FUL L1
L17 STR

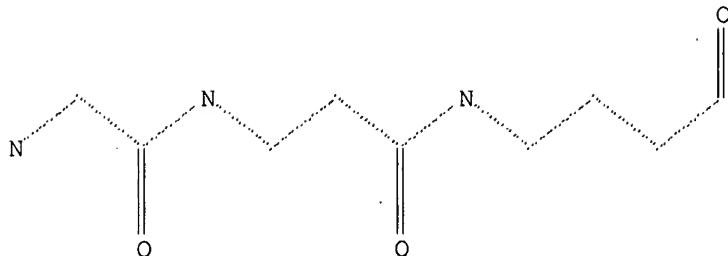


Structure attributes must be viewed using STN Express query preparation.

L18 35 SEA FILE=REGISTRY SUB=L4 SSS FUL L17
L19 92 SEA FILE=REGISTRY SUB=L5 SSS FUL L17
L20 167 SEA FILE=REGISTRY SUB=L6 SSS FUL L17
L21 278 SEA FILE=REGISTRY ABB=ON PLU=ON L18 OR L19 OR L20

L22 28 SEA L21 AND 15

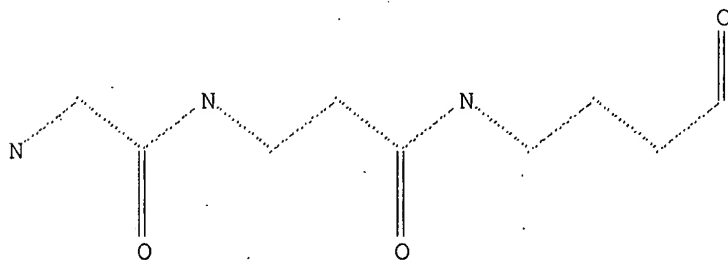
L23 STR



Structure attributes must be viewed using STN Express query preparation.

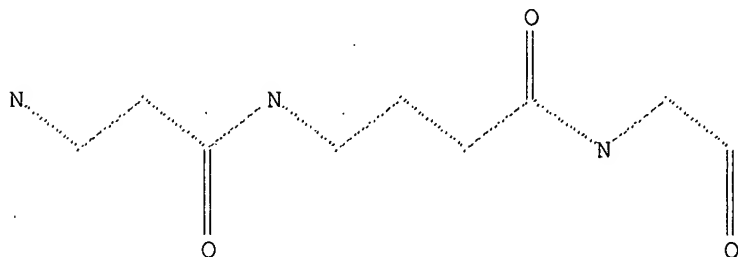
L25 24 SEA FILE=REGISTRY SSS FUL L23
 L26 19 SEA L25
 L27 16 SEA L26 AND (PD=<20030826 OR PRD=<20030826)
 L28 15 SEA L27 AND (PD=<20020826 OR PRD=<20020826)
 L29 15 SEA L28 AND (PD<20020826 OR PRD<20020826)
 L30 12 DUP REM L29 (3 DUPLICATES REMOVED)

L23 STR



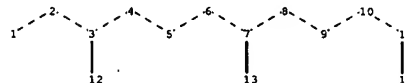
Structure attributes must be viewed using STN Express query preparation.

L25 24 SEA FILE=REGISTRY SSS FUL L23
 L26 19 SEA L25
 L27 16 SEA L26 AND (PD=<20030826 OR PRD=<20030826)
 L31 STR



Structure attributes must be viewed using STN Express query preparation.

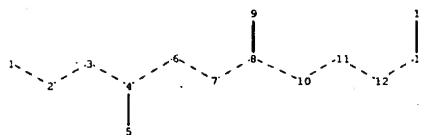
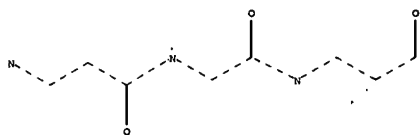
L32	71 SEA FILE=REGISTRY SSS FUL L31
L33	27 SEA L32 AND (PD=<20030826 OR PRD=<20030826)
L34	25 SEA L33 AND (PD=<20020826 OR PRD=<20020826)
L35	25 SEA L34 AND (PD<20020826 OR PRD<20020826)
L36	25 SEA L35 NOT L27
L37	23 DUP REM L36 (2 DUPLICATES REMOVED)



```

chain nodes :
  3 7 11 12 13 14
ring nodes :
  5 6 9 10
ring/chain nodes :
  1 2 4 8
chain bonds :
  2-3 3-4 3-12 6-7 7-8 7-13 10-11 11-14
ring/chain bonds :
  1-2 4-5 8-9
ring bonds :
  5-6 9-10
exact/norm bonds :
  1-2 2-3 3-4 3-12 4-5 5-6 6-7 7-8 7-13 8-9 9-10 10-11 11-14

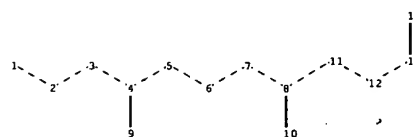
Match level :
  1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:CLASS 8:CLASS
  9:Atom 10:Atom 11:CLASS 12:CLASS 13:CLASS 14:CLASS
  
```



```

chain nodes :
  4 5 8 9 13 14
ring nodes :
  2 3 11 12
ring/chain nodes :
  1 6 7 10
chain bonds :
  3-4 4-5 4-6 7-8 8-9 8-10 12-13 13-14
ring/chain bonds :
  1-2 6-7 10-11
ring bonds :
  2-3 11-12
exact/norm bonds :
  1-2 2-3 3-4 4-5 4-6 6-7 7-8 8-9 8-10 10-11 11-12 12-13 13-14

Match level :
  1:CLASS 2:Atom 3:Atom 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
  9:CLASS 10:CLASS 11:Atom 12:Atom 13:CLASS 14:CLASS
  
```



chain nodes :

4 8 9 10 13 14

ring nodes :

2 3 6 7

ring/chain nodes :

1 5 11 12

chain bonds :

3-4 4-5 4-9 7-8 8-10 8-11 12-13 13-14

ring/chain bonds :

1-2 5-6 11-12

ring bonds :

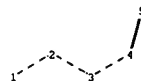
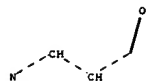
2-3 6-7

exact/norm bonds :

1-2 2-3 3-4 4-5 4-9 5-6 6-7 7-8 8-10 8-11 11-12 12-13 13-14

Match level :

1:CLASS 2:Atom 3:Atom 4:CLASS 5:CLASS 6:Atom 7:Atom 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS

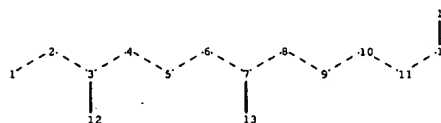
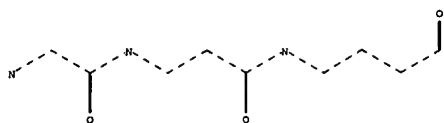


```

chain nodes :
  4 5
ring nodes :
  2 3
ring/chain nodes :
  1
chain bonds :
  3-4 4-5
ring/chain bonds :
  1-2
ring bonds :
  2-3
exact/norm bonds :
  1-2 2-3 3-4 4-5
  
```

```

Match level :
  1:CLASS 2:Atom 3:Atom 4:CLASS 5:CLASS
  
```



chain nodes :

3 7 12 13 14 15

ring nodes :

5 6 9 10

ring/chain nodes :

1 2 4 8 11

chain bonds :

2-3 3-4 3-12 6-7 7-8 7-13 11-14 14-15

ring/chain bonds :

1-2 4-5 8-9 9-10 10-11

ring bonds :

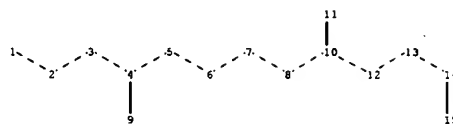
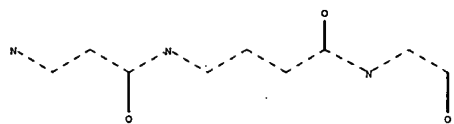
5-6

exact/norm bonds :

1-2 2-3 3-4 3-12 4-5 5-6 6-7 7-8 7-13 8-9 9-10 10-11 11-14
14-15

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:CLASS 8:CLASS
9:Atom 10:Atom 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS



chain nodes :

4 9 10 11 14 15

ring nodes :

2 3 6 7

ring/chain nodes :

1 5 8 12 13

chain bonds :

3-4 4-5 4-9 8-10 10-11 10-12 13-14 14-15

ring/chain bonds :

1-2 5-6 6-7 7-8 12-13

ring bonds :

2-3

exact/norm bonds :

1-2 2-3 3-4 4-5 4-9 5-6 6-7 7-8 8-10 10-11 10-12 12-13 13-14
14-15

Match level :

1:CLASS 2:Atom 3:Atom 4:CLASS 5:CLASS 6:Atom 7:Atom 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S9	2	"6958384".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	AND	ON	2007/01/19 14:22
S12	13192	S11 or S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/01/19 14:42
S11	12793	hayen.in. or schmitt.in. or ngassa.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/01/19 14:42
S10	402	gellman.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/01/19 14:42
S7	11817	S6 or S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/01/19 14:42
S6	11480	hayen.in. or schmitt.in. or ngassa.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/01/19 14:42
S13	39	gellman-s\$-\$.in. or hayen-A\$.in. or schmitt-margaret-\$.in. or ngassa-f\$-\$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/01/19 14:43
S14	0	("2002/0032334").URPN.	USPAT	AND	ON	2007/01/19 14:54
S15	1	"6710186".pn.	USPAT	AND	ON	2007/01/19 16:05
S17	1	"5064804".pn.	USPAT	AND	ON	2007/01/19 16:07
S16	1	"5328900".pn.	USPAT	AND	ON	2007/01/19 16:07
S18	1	"5064814".pn.	USPAT	AND	ON	2007/01/19 18:50
S21	7	kaiser-d\$-A\$.in.	USPAT	AND	ON	2007/01/19 18:51
S20	1	pollard-t\$-d.in.	USPAT	AND	ON	2007/01/19 18:51
S19	6	ichikawa-Yoshitaka.in.	USPAT	AND	ON	2007/01/19 18:51
S22	470	ichikawa-Y\$.in.	USPAT	AND	ON	2007/01/19 18:52

EAST Search History

S23	17	S22 and oligomer	USPAT	AND	ON	2007/01/19 19:00
S25	1	"7067525".pn.	USPAT	AND	ON	2007/01/19 19:03
S24	1	"6060585".pn.	USPAT	AND	ON	2007/01/19 19:03